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S1
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? s s1 and dinucleotide
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>>>W: Duplicate detection is not supported for File 393.
Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
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                RD (UNIQUE ITEMS)
? t s3/3, k/1-8
>>>W: KWIC option is not available in file(s): 399
 3/3,K/1 (Item 1 from file: 24) Links
   Fulltext available through:
                                  STIC Full Text Retrieval Options
CSA Life Sciences Abstracts
(c) 2008 CSA. All rights reserved.
0003084006
               IP Accession No: 7613283
Cyclic Di-GMP Stimulates Protective Innate Immunity in Bacterial Pneumonia
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Untitled

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Karaolis, David KR; Newstead, Michael W; Zeng, Xianying; Hyodo, Mamoru; Hayakawa, Yoshihiro; Bhan, Urvhashi; Liang, Hallie; Standiford, Theodore J Intragenics Research Institute, Havre de Grace, Maryland 21078. Karagen Pharmaceuticals, Baltimore, Maryland 21210. Department of Internal Medicine, Division of Pulmonary and Critical Care Medicine, University of Michigan Medical Center, Ann Arbor Michigan 48109. Graduate School of Information Science/Human Informatics, Nagoya
University, Nagoya, Japan
Infection and Immunity , v 75 , n 10 , p 4942-4950 , October 2007
Publication Date: 2007
Publisher: American Society for Microbiology, 1752 N Street N.W. Washington, DC
20036 USA. [URL:http://www.asm.org/]
Document Type: Journal Article
Record Type: Abstract
Language: English
Summary Language: English
ISSN: 0019-9567
Electronic Issn: 1098-5522
File Segment: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)
Karaolis, David KR; Newstead, Michael W; Zeng, Xianying; Hyodo, Mamoru; Hayakawa,
Yoshihiro; Bhan, Urvhashi; Liang, Hallie...
Abstract:
 ...immunity in the lung and protects mice against bacterial invasion. We propose
that the cyclic dinucleotide c-di-GMP may be used clinically as an effective
immunomodulator, immune enhancer, and vaccine...
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3/3,K/2 (Item 2 from file: 24) Links Fulltext available through: STIC Full Text Retrieval Options CSA Life Sciences Abstracts
(c) 2008 CSA. All rights reserved. IP Accession No: 6164268 c-di-GMP (3'-5'-Cyclic Diguanylic Acid) Inhibits Staphylococcus aureus Cell-Cell Interactions and Biofilm Formation

Karaolis, David KR; Rashid, Mohammed H; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro Department of Epidemiology and Preventive Medicine. Department of Medicine, University of Maryland School of Medicine, Baltimore Maryland. Graduate School of Information Science/Human Informatics and CREST/JST. Nagoya University, Nagoya, Japan Antimicrobial Agents & Chemotherapy , v 49 , n 3 , p 1029-1038 , March 2005 Publication Date: 2005

Publisher: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA, [URL:http://www.asm.org/]

Document Type: Journal Article Record Type: Abstract Language: English Summary Language: English ISSN: 0066-4804

File Segment: Bacteriology Abstracts (Microbiology B): Industrial & Applied Microbiology Abstracts (Microbiology A) Karaolis, David KR; Rashid, Mohammed H; Chythanya, Rajanna; Luo, Wensheng; Hyodo,

Mamoru: Hayakawa, Yoshihiro

Abstract:

...the scientific, medical, and agriculture communities. We recently proposed that modulating levels of the cyclic dinucleotide signaling molecule, c-di-GMP (cyclic diguanylate [3',5'- cyclic diguanylic acid], cGpGp), has utility...

Untitled

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3/3.K/3 (Item 3 from file: 24) Links
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                                          STIC Full Text Retrieval Options
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0002414401
                  IP Accession No: 5770748
Identification of genes involved in the switch between the smooth and rugose
phenotypes of Vibrio cholerae
Rashid, MH; Rajanna, C; Ali, A; Karaolis, DK* Department of Epidemiology and
Preventive Medicine, University of Maryland School of Medicine, Baltimore, MD 21201, USA, [mailto:karaolis@umaryland.edu] FEMS Microbiology Letters , v 227 , n 1 , p 113-119 , October 10, 2003 Publication Date: 2003
Publisher: Federation of European Microbiological Societies
Document Type: Journal Article
Record Type: Abstract
Language: English
Summary Language: English
ISSN: 0378-1097
File Segment: Genetics Abstracts: Bacteriology Abstracts (Microbiology B)
Rashid, MH; Rajanna, C; Ali, A; Karaolis, DK
Abstract:
...for the rugose phenotype, EPS, biofilm formation and motility. We propose that
modulation of cyclic dinucleotide (e.g. c-di-GMP) levels might have application in
regulating various phenotypes of prokaryotes...
 3/3,K/4 (Item 1 from file: 393) Links
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Reliatein Abstract Id: 6552279

File: c-di-GMP (3'-5'-Cyclic Diguanylic Acid) Inhibits Staphylococcus aureus Cell-Cell Interactions and Biofilm Formation
Document Type: Journal
                                    Record Type: Abstract
Author: Karaolis, David K. R.; Rashid, Mohammed H.; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro
Citation: Antimicrob. Agents & Chemother. (2005) Series: 49-3, 1029 - 1038 CODEN:
AMACCQ Language: English
Abstract Language: English
Author: Karaolis, David K. R.; Rashid, Mohammed H.; Chythanya, Rajanna: Luo.
Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro
Patent Assignee:
ratemic Assignee. A Mostract: ... the scientific, medical, and agriculture communities. We recently proposed that modulating levels of the cyclic dinucleotide signaling molecule. c-di-GMP (cyclic diguanylate .3',5'-cyclic diguanylic acid., cGpGp), has utility ...
Abstract Language:
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3/3,K/5 (Item 2 from file: 393) Links Beilstein Database - Abstracts (c) 2008 Beilstein GmbH. All rights reserved. Beilstein Abstract Id: 6521205 Title: 3',5'-Cyclic Diguanylic Acid Reduces the Virulence of Biofilm-Forming Staphylococcus aureus Strains in a Mouse Model of Mastitis Infection Document Type: Journal Record Type: Abstract Author: Brouillette, Eric; Hyodo, Mamoru; Hayakawa, Yoshihiro; Karaolis, David K. R.; Malouin, François

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Untitled
Citation: Antimicrob. Agents & Chemother. (2005) Series: 49-8, 3109 - 3113 CODEN:
AMACCQ Language: English
Abstract Language: English
Author: Brouillette, Eric; Hyodo, Mamoru; Hayakawa, Yoshihiro; Karaolis, David K.
R.; Malouin, Francois
Patent Assignee:
Abstract: The cyclic dinucleotide 3',5'-cyclic diguanylic acid (c-di-GMP) is a
naturally occurring small molecule that...
Abstract Language:
 3/3.K/6 (Item 1 from file: 399) Links
CA SEARCH(R)
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148024432
                    CA: 148(2)24432t
                                                   PATENT
Method for stimulating the immune, inflammatory or neuroprotective response
Inventor (Author): Karaolis, David K. R.
Location: USA
Docation: 059-
Patent: U.S. Pat. Appl. Publ.: US 20070281897 A1 Date: 20071206
Application: US 200766906 (20070130) *US 2004PV552721 (20040315) *US 2004PV563692
(20040420) *US 200579886 (20050315)
Pages: 60pp., Cont.-in-part of U.S. Ser. No. 79.886.
CODEN: USXXCO
Language: English
Patent Classifications:
  Class:
           514044000
   IPCR/8 + Level Value Position Status Version Action Source Office:
      A61K-0031/7076 A I F B 20060101 20071206 H US
A61P-0031/00 A I L B 20060101 20071206 H US
                      A I L B 20060101
      A61P-0037/00
                                                    20071206 H US
 3/3,K/7 (Item 2 from file: 399) Links
CA SEARCH(R)
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143279369
                    CA: 143(16)279369s
                                                     PATENT
Method using cyclic di-GMP or cyclic dinucleotide analog thereof for inhibiting
cancer cell proliferation or increasing cancer cell apoptosis
Inventor (Author): Karaolis, David K. R.; Raufman, Jean-Pierre
Location: USA
Patent: U.S. Pat. Appl. Publ.; US 20050203051 A1 Date: 20050915
Application: US 200579779 (20050315) *US 2004PV552721 (20040315) *US 2004PV563692
(20040420)
Pages: 22 pp.
CODEN: USXXCO
Language: English
Patent Classifications:
  Class:
             514045000: A61K-031/7076A
 3/3.K/8 (Item 3 from file: 399) Links
CA SEARCH(R)
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                    CA: 142(20)367640h
Method for attenuating virulence of microbial pathogens and inhibiting microbial biofilm formation by using c-di-GMP and cyclic dinucleotide analogs
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Location: USA
Assignee: University of Maryland
Patent: PCT International ; WO 200530186 A2
Page 4

Page 4

Inventor (Author): Karaolis, David K. R.

Untitled

Application: WO 2004US23498 (20040722) *US 2003PV490029 (20030728)

Pages: 118 pp. CODEN: PIXXD2

Language: English

Patent Classifications:

Class: A61K-031/00A Designated Countries: AE: AG: AL: AM: AT: AU: AZ: BA: BB: BG: BR: BW: BY: BZ: CA: CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK, MM; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW Designated Regional: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

RD (unique items)

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